

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: _____

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10/542,435
IFWP
05/31/2006

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RAW SEQUENCE LISTING

DATE: 05/31/2006

PATENT APPLICATION: US/10/542,435

TIME: 14:05:28

Input Set : A:\JHU2090-1.ST25.txt

Output Set: N:\CRF4\05312006\J542435.raw

3 <110> APPLICANT: THE JOHNS HOPKINS UNIVERSITY
 4 ROTHSTEIN, Jeffery D.
 5 RUGGIERO, Alicia
 7 <120> TITLE OF INVENTION: METHODS OF IDENTIFYING MODULATORS OF CELLULAR GLYCOSYLATION
 USING
 8 GTRAP3-18
 10 <130> FILE REFERENCE: JHU2090-1
 12 <140> CURRENT APPLICATION NUMBER: US 10/542,435
 C--> 13 <141> CURRENT FILING DATE: 2005-07-15
 15 <150> PRIOR APPLICATION NUMBER: PCT/US2004/001162
 16 <151> PRIOR FILING DATE: 2004-01-18
 18 <150> PRIOR APPLICATION NUMBER: US 60/440,717
 19 <151> PRIOR FILING DATE: 2003-01-17
 21 <160> NUMBER OF SEQ ID NOS: 10
 23 <170> SOFTWARE: PatentIn version 3.3
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 567
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Rattus norvegicus
 30 <400> SEQUENCE: 1
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 33 ttcgcacggc cggacttcag ggatatatcc aaatggaaca accgtgtagt gagcaatctg 120
 35 ctctattacc agaccaacta cctgggtggtg gctgccatga tgatttcagt cgttgggttt 180
 37 ctgagcccct tcaacatgat ccttgaggga atcattgtgg tgctggtgtt cacgggggtt 240
 39 gtgtgggcag cacacaataa agacatcctc cgccggatga agaagcagta cccaacggcc 300
 41 tttgtcatgg tggatcatgct agccagctac ttctcatat ccatgtttgg gggtgtcatg 360
 43 gtctttgtgt ttggcatcac gtttccctta ttgttgatgt tcatccatgc atccctgaga 420
 45 cttcgaaacc tcaagaacaa actggaaaat aaaatggagg gaataggctt gaagaaaacg 480
 47 ccgatgggca tcatcctgga tgccttgga cagcaggaag acagcatcaa taaatttgct 540
 49 gactacatca gcaaagccag ggagtaa 567
 52 <210> SEQ ID NO: 2
 53 <211> LENGTH: 188
 54 <212> TYPE: PRT
 55 <213> ORGANISM: Rattus norvegicus
 57 <400> SEQUENCE: 2
 59 Met Asp Val Asn Leu Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro
 60 1 5 10 15
 63 Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp
 64 20 25 30
 67 Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu
 68 35 40 45
 71 Val Val Ala Ala Met Met Ile Ser Val Val Gly Phe Leu Ser Pro Phe
 72 50 55 60
 75 Asn Met Ile Leu Gly Gly Ile Ile Val Val Leu Val Phe Thr Gly Phe

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76 65          70          75          80
79 Val Trp Ala Ala His Asn Lys Asp Ile Leu Arg Arg Met Lys Lys Gln
80          85          90          95
83 Tyr Pro Thr Ala Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu
84          100          105          110
87 Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe
88          115          120          125
91 Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu
92          130          135          140
95 Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Lys Thr
96 145          150          155          160
99 Pro Met Gly Ile Ile Leu Asp Ala Leu Glu Gln Gln Glu Asp Ser Ile
100          165          170          175
103 Asn Lys Phe Ala Asp Tyr Ile Ser Lys Ala Arg Glu
104          180          185
107 <210> SEQ ID NO: 3
108 <211> LENGTH: 96
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens P429-End EAAT3
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114 Pro Ala Glu Asp Val Thr Leu Ile Ile Ala Val Asp Trp Leu Leu Asp
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118 Arg Phe Arg Thr Met Val Asn Val Leu Gly Asp Ala Phe Gly Thr Gly
119          20          25          30
122 Ile Val Glu Lys Leu Ser Lys Lys Glu Leu Glu Gln Met Asp Val Ser
123          35          40          45
126 Ser Glu Val Asn Ile Val Asn Pro Phe Ala Leu Glu Ser Thr Ile Leu
127          50          55          60
130 Asp Asn Glu Asp Ser Asp Thr Lys Lys Ser Tyr Val Asn Gly Gly Phe
131 65          70          75          80
134 Ala Val Asp Lys Ser Asp Thr Ile Ser Phe Thr Gln Thr Ser Gln Phe
135          85          90          95
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139 <211> LENGTH: 121
140 <212> TYPE: PRT
141 <213> ORGANISM: Homo sapiens P439-End EAAT5
143 <400> SEQUENCE: 4
145 Pro Thr Asp Asp Ile Thr Leu Ile Ile Gly Val Asp Trp Ala Leu Asp
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149 Arg Phe Arg Thr Met Ile Asn Val Leu Gly Asp Ala Leu Ala Ala Gly
150          20          25          30
153 Ile Met Ala His Ile Cys Arg Lys Asp Phe Ala Arg Asp Thr Gly Thr
154          35          40          45
157 Glu Lys Leu Leu Pro Cys Glu Thr Lys Pro Val Ser Leu Gln Glu Ile
158          50          55          60
161 Val Ala Ala Gln Gln Asn Gly Cys Val Lys Ser Val Ala Glu Ala Ser
162 65          70          75          80
165 Glu Leu Thr Leu Gly Pro Thr Cys Pro His His Val Pro Val Gln Val
166          85          90          95

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169 Glu Arg Asp Glu Glu Leu Pro Ala Ala Ser Leu Asn His Cys Thr Ile
170          100          105          110
173 Gln Ile Ser Glu Leu Glu Thr Asn Val
174          115          120
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178 <211> LENGTH: 92
179 <212> TYPE: PRT
180 <213> ORGANISM: Homo sapiens P441-end ASCT1
182 <400> SEQUENCE: 5
184 Pro Thr His Asp Leu Pro Leu Ile Leu Ala Val Asp Trp Ile Val Asp
185 1          5          10          15
188 Arg Thr Thr Thr Val Val Asn Val Glu Gly Asp Ala Leu Gly Ala Gly
189          20          25          30
192 Ile Leu His His Leu Asn Gln Lys Ala Thr Lys Lys Gly Glu Gln Glu
193          35          40          45
196 Leu Ala Glu Val Lys Val Glu Ala Ile Pro Asn Cys Lys Ser Glu Glu
197          50          55          60
200 Glu Thr Ser Pro Leu Val Thr His Gln Asn Pro Ala Gly Pro Val Ala
201 65          70          75          80
204 Ser Ala Pro Glu Leu Glu Ser Lys Glu Ser Val Leu
205          85          90
208 <210> SEQ ID NO: 6
209 <211> LENGTH: 93
210 <212> TYPE: PRT
211 <213> ORGANISM: Homo sapiens P448-end ASCT2
213 <400> SEQUENCE: 6
215 Pro Val Asp His Ile Ser Leu Ile Leu Ala Val Asp Trp Leu Val Asp
216 1          5          10          15
219 Arg Ser Cys Thr Val Leu Asn Val Glu Gly Asp Ala Leu Gly Ala Gly
220          20          25          30
223 Leu Leu Gln Asn Tyr Val Asp Arg Thr Glu Ser Arg Ser Thr Glu Pro
224          35          40          45
227 Glu Leu Ile Gln Val Lys Ser Glu Leu Pro Leu Asp Pro Leu Pro Val
228          50          55          60
231 Pro Thr Glu Glu Gly Asn Pro Leu Leu Lys His Tyr Arg Gly Pro Ala
232 65          70          75          80
235 Gly Asp Ala Thr Val Ala Ser Glu Lys Glu Ser Val Met
236          85          90
239 <210> SEQ ID NO: 7
240 <211> LENGTH: 82
241 <212> TYPE: PRT
242 <213> ORGANISM: Homo sapiens P462-End EAAT1
244 <400> SEQUENCE: 7
246 Pro Thr Asp Asp Ile Thr Leu Ile Ile Ala Val Asp Trp Phe Leu Asp
247 1          5          10          15
250 Arg Leu Arg Thr Thr Thr Asn Val Leu Gly Asp Ser Leu Gly Ala Gly
251          20          25          30
254 Ile Val Glu His Leu Ser Arg His Glu Leu Lys Asn Arg Asp Val Glu
255          35          40          45

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258 Met Gly Asn Ser Val Ile Glu Glu Asn Glu Met Lys Lys Pro Tyr Gln
 259 50 55 60
 262 Leu Ile Ala Gln Asp Asn Glu Thr Glu Lys Pro Ile Asp Ser Glu Thr
 263 65 70 75 80

266 Lys Met

270 <210> SEQ ID NO: 8

271 <211> LENGTH: 104

272 <212> TYPE: PRT

273 <213> ORGANISM: Rat P462-End rGlt-1b

275 <400> SEQUENCE: 8

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278 1 5 10 15

281 Arg Met Arg Thr Ser Val Asn Val Val Gly Asp Ser Phe Gly Ala Gly

282 20 25 30

285 Ile Val Tyr His Leu Ser Lys Ser Glu Leu Asp Thr Ile Asp Ser Gln

286 35 40 45

289 His Arg Met His Glu Asp Ile Glu Met Thr Lys Thr Gln Ser Ile Tyr

290 50 55 60

293 Asp Asp Thr Lys Asn His Arg Glu Ser Asn Ser Asn Gln Cys Val Asn

294 65 70 75 80

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298 85 90 95

301 Phe Leu Asp Ile Glu Thr Cys Ile

302 100

305 <210> SEQ ID NO: 9

306 <211> LENGTH: 115

307 <212> TYPE: PRT

308 <213> ORGANISM: Rat P462-End rGlt-1

310 <400> SEQUENCE: 9

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313 1 5 10 15

316 Arg Met Arg Thr Ser Val Asn Val Val Gly Asp Ser Phe Gly Ala Gly

317 20 25 30

320 Ile Val Tyr His Leu Ser Lys Ser Glu Leu Asp Thr Ile Asp Ser Gln

321 35 40 45

324 His Arg Met His Glu Asp Ile Glu Met Thr Lys Thr Gln Ser Val Tyr

325 50 55 60

328 Asp Asp Thr Lys Asn His Arg Glu Ser Asn Ser Asn Gln Cys Val Tyr

329 65 70 75 80

332 Ala Ala His Asn Ser Val Val Ile Asp Glu Cys Lys Val Thr Leu Ala

333 85 90 95

336 Ala Asn Gly Lys Ser Ala Asp Cys Ser Val Glu Glu Glu Pro Trp Lys

337 100 105 110

340 Arg Glu Lys

341 115

344 <210> SEQ ID NO: 10

345 <211> LENGTH: 79

346 <212> TYPE: PRT

347 <213> ORGANISM: Rat P486-End EAAT4

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349 <400> SEQUENCE: 10

351 Pro Thr Glu Asp Ile Thr Leu Ile Ile Ala Val Asp Trp Phe Leu Asp

352 1 5 10 15

355 Arg Leu Arg Thr Met Thr Asn Val Leu Gly Asp Ser Ile Gly Ala Ala

356 20 25 30

359 Val Ile Glu His Leu Ser Gln Arg Glu Leu Glu Leu Gln Glu Ala Glu

360 35 40 45

363 Leu Thr Leu Pro Ser Leu Gly Lys Pro Tyr Lys Ser Leu Met Ala Gln

364 50 55 60

367 Glu Lys Gly Ala Ser Arg Gly Arg Gly Gly Asn Glu Ser Ala Met

368 65 70 75

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/542,435

DATE: 05/31/2006

TIME: 14:05:29

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